

# NEWSLINE

Published weekly for employees of Lawrence Livermore National Laboratory

Friday, September 15, 2000

Vol. 25, No. 37



Lab physicist Doug Wright stands by the BaBar detector, a part of the B Factory experiment at the Stanford Linear Accelerator Center. Lab scientists played a key role in the B Factory's development.

## B Factory yields results that matter

By Don Johnston

NEWSLINE STAFF WRITER

The first publicly released results from the B Factory experiment at the Stanford Linear Accelerator Center (SLAC) show promise for making or breaking long-held theories about why the universe contains far more matter than anti-matter.

"The really great thing is that we're getting

significant results in our very first year of operation compared to many years of effort from past experiments," says physicist Doug Wright, principal investigator for LLNL's B Factory team.

Collaborators in the PEP-II Asymmetric B Factory at Stanford announced their results at the International Conference on High-Energy Physics in Osaka, Japan, earlier this summer. Scientists

See **B FACTORY**, page 8

## Family Days to offer employee families opportunity to tour Lab

Employees who hold a Q- and L-cleared Laboratory badge may bring up to 10 family members or guests each day during the upcoming Family Days.

Family Days will be held the weekend of Oct. 21-22, 10 a.m. to 4 p.m., throughout the Lab. Site 300 will hold its Family Day on Oct. 21 only.

Employees who hold a regularly issued P Laboratory badge must make arrangements through their group or division leader for a Q- or L-badged escort to accompany the P-cleared employee and any family members or guests. Between the employee and escort, the total number of family members or guests must not exceed 10.

Employees and other personnel holding a DOE badge will be required to wear it at all times during their Family Days.

Q- and L-badged employees may bring family members or guests who are not U.S. citizens, however, advanced DOE approval must be obtained. Employees whose family members or guests are foreign nationals must complete a "blue entry card," available from directorate offices; Don Carlson of the Information and Security Awareness Group, 3-9135; or at the Westgate Badge Office, Bldg. 71. Blue entry cards must be completed and returned to Carlson at L-504 no later than Friday, Sept. 22.

All Q or L-cleared employees who are

See **GUESTS**, page 8

## Laboratory ceremony to remember Director Emeritus Roger Batzel

All Laboratory employees are invited to attend a commemoration in honor of Director Emeritus Roger Batzel later this month.

The event, slated for Saturday, Sept. 30, will begin at 10 a.m. in Bldg. 125, the West Cafeteria, and will be a remembrance of the Laboratory's sixth director, his tenure and impact on the Lab. A reception will follow. People who will be attending should RSVP by phoning Sheryl Rikard, 3-0614, or Patti Carter, 2-7401, by Monday, Sept. 25.

Batzel, who served as LLNL's director from 1971 to 1988, more than one-third of the



Roger Batzel

Laboratory's history, is credited with playing an important role in the growth and transition of the Laboratory from a defense and nuclear facility to a multi-program institution.

Batzel joined the Laboratory

See **BATZEL**, page 8

## Teller tours NIF



JACQUELINE MCBRIDE/TID

Director Emeritus Edward Teller (left) in Laser Bay II during a tour of NIF led by Ed Moses, NIF project manager (driving). Director Bruce Tarter and Valerie Roberts, deputy project manager, also accompanied Teller for the visit to the clean area of the facility.



**DTED youth movement**

— Page 3



**Lab veterans Stand-Down**

— Page 3



**Waste not, want not**

— Page 5





LAB COMMUNITY NEWS

Weekly Calendar

Technical Meeting Calendar, page 4

Saturday  
16

All LLNL researchers in the area of condensed matter physics are invited to attend the “**Physics by the Bay**” meeting from 9 a.m.-6 p.m. at UC Berkeley, Birge Hall. The meeting involves condensed matter physics faculty, postdocs, and students from Stanford, UC Berkeley, Davis and Santa Cruz, IBM Almaden and LLNL. The intention is to provide an informal environment for condensed matter workers in the Bay Area to discuss physics and to further develop the condensed matter physics community. There is no charge for the meeting. Contact: Harry Radovsky, 2-4478.

...

The community is invited to a free open house at **Camp Parks** from 9 a.m. to 4 p.m. to learn more about the Army and the veterans who served our country. The day will include a six-mile walk through the maneuver areas, two military helicopters on display as well as food for sale and face paintings, games and demonstrations for kids. Contact: Lynne Schaack, 803-5636.

Tuesday  
19

There are still openings in the **LLESA New Beginnings exercise class**. This is the perfect class for sedentary or out-of-shape participants. Learn basic aerobics, step, toning and stretching at a non-intimidating beginner pace. Classes are held Tuesdays and Thursdays from 11:30 a.m.-12:15 p.m., Sept. 19 - Oct. 19. Cost is \$25 for a five-week session. Register now in the LLESA Office, Bldg. 415, room 142. Contact: LLESA, 2-9402.

Friday  
22

Nominations are now being accepted for the **Hope Hospice Lights of Hope Award**, given to individuals who have enhanced the quality of life in their community. Eligible nominees must live, work or volunteer in the Hope Hospice service area which includes Alamo, Blackhawk, Castro Valley, Danville, Diablo, Dublin, Livermore, Pleasanton, San Ramon and Sunol. Nominations must be received by 5 p.m. on Friday, Sept. 22. Contact: Hope Hospice, 829-8770 for a nomination form or go to [www.hopehospice.com](http://www.hopehospice.com)

UP  
&  
COMING

A representative from **Fidelity Investments** will be on site to meet with employees Sept. 26-27. Fidelity Investments are available to UC's 403(b) participants. Appointments are required; call 1-800-642-7131. Be sure to specify you are a Lab employee.

...

B Division's **fall book sale** returns Oct. 9-13, from 11:30 a.m. to 1:30 p.m. in Bldg. 132, room 1200 (Q- or L-cleared access only). Used books, videos, CDs and books-on-tape are needed; all proceeds are used to buy Christmas gifts for needy children. A collection box is available in the lobby of Bldg. 132, or call Lynn Groves, 2-1684.

Volunteers needed for outreach programs

By Bob Becker

LLNL RETIREE

**Ken Engelund**, Human Relations, now lives in Ashland, Ore. Ken wrote a very nice e-mail telling me that I was in the doghouse with his wife, **Carol**. Carol had written me a letter followed by an e-mail that I evidently misplaced or lost completely. So here goes my attempt to get out of the doghouse:

Carol, who was in Procurement, toured Italy with Ken and their neighbors, **Joyce and Chuck Cowan** (also from Procurement). The trip included visits to Milan and Lugano and trips to Switzerland and Lake Como. They then visited Venice and Florence. They headed south to Sorrento and Capri, Rome, Pompeii, the Vatican Museums and the Sistine Chapel.

Carol, I'm sorry that I fouled up, and I'm sure that your friends and associates are interested in hearing about your trip with the Cowans.

The Engelunds had dinner with **Lee and Shirley Loquist** from Grants Pass and took a trip to the San Juan Islands with **Jill and Jerry Ingeldue**.

...

I heard from **Joe Romo**, who retired in 1993 as a mechanical engineering associate and had worked with the Chemistry and Materials Science Directorate. He and his wife Ruth live in North San Diego County. They live far enough from the coast that the weather is just about ideal. They live in Olivenhain in the very northeast corner of Carlsbad. They are both very active in the Santa Fe Trails Homeowners Association. They would love to hear from some of their friends with whom they have lost touch. Their e-mail address is [joeandruth@earthlink.net](mailto:joeandruth@earthlink.net)

...

Here's an update on the Retiree Program at the

Lab: The program is doing well under Richard Dong and Kathleen Martinez. There are 11 programs looking for retiree volunteers. These programs include: the Tri-Valley Science and Engineering Fair, the Visitors Center, the American Indian Program and the Experience

Transfer Program (ETP). Kathleen and Richard would appreciate hearing from any retirees who are interested. Their Website

is <http://www.llnl.gov/aadp/retiree/index.html> or their e-mail addresses are: [martinezl4@llnl.gov](mailto:martinezl4@llnl.gov) or [dongl@llnl.gov](mailto:dongl@llnl.gov). Kathleen is at the Lab, L-716, 925-423-4142.

...

I received a letter from **Fred Kovar** of Walnut Creek, who with his wife took a cruise through the Panama Canal from Miami to San Francisco. Fred indicated that terminating the cruise in San Francisco prevented a flight home and was a real pleasure. The Kovars are also spending time at Lake Tahoe and Carson City. Fred will be teaching a short course in physics at Diablo Valley College's emeritus college program. The course is "Physics for Dummies," a fun course that answers questions such as: Why is the sky blue? How can airplanes fly? How does a yo-yo work? Why is it easy to balance a bike when it is moving but not when it is standing still? The emeritus college program provides various courses for adults 55 or older and is based at DVC in Pleasant Hill.

...

It has been a very quiet summer and I have not heard from many of our fellow retirees. Let me know what you are up to.

Write Bob Becker, 1690 Frederick Michael Way, Livermore, CA, 94550, or call 925-447-3867.

Be sure to let me know what years you worked at the Lab, the department or departments in which you worked, and when you retired.

Tickets now available for annual LLLWA luncheon

Shake out your Hawaiian grass skirts and throw on a lei for the upcoming Women's Association's 29th annual membership drive and luncheon.

Actually, Hawaiian dress is optional, but encouraged, for the event which will be held on Tuesday, Sept. 26, from 11:30 a.m. to 1:30 p.m. at the Rios Lovelle Winery, 6550 Tesla Road.

Tickets are \$25 per person, which includes a buffet lunch and membership fee for the association. Tickets must be purchased by Wednesday, Sept. 20. Checks can be mailed to Brenda Enos at L-605.

The luncheon will feature guest speaker Erna Grasz, who will discuss "Dare to be Different: True Leadership Happens at All Levels."

RETIREMENTS

Willy Cooper

Willy Cooper of the Nevada Experiments and Operations Program (N Program) has retired after 31 years at the Lab.

A retirement party will be held in his honor on Thursday, Sept. 28, 4-6 p.m. at the LLNL West Cafeteria.

Price is \$15 and includes hors d'oeuvres, drinks, and gift. To RSVP, call Sharon James, 3-2835, or Leslie Lisle, 2-1730, no later than Tuesday, Sept. 19.



Presenting ...

## Technology Today

"Technology Today" is a collaboration between Lawrence Livermore and Sandia laboratories featuring scientists and employees sharing declassified information about current projects and research.

Airing on **CTV** Channel 30.

See <http://www.ctv30.org/guide30.html> for scheduling.

Newsline

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## AROUND THE LAB

# DTED starts a youth movement with summer program

By Ali Carrigan

NEWSLINE STAFF WRITER

In an effort to recruit more young scientists to the Lab, several directorates host summer interns. This year, W Program, or Defense Technologies Engineering Division, joined other Laboratory organizations in this regard.

"We primarily do classified work," said Tony Davito, DTED's associate division leader. "So having summer interns wasn't usually an option open to us."

But an eye-opening demographic caused DTED management to rethink its closed-door policy. Forty-eight percent of the division's 200 series employees are 50 years or older, while 38 percent of the 500 series employees are 50 or over.

"Engineering as a whole hasn't been recruiting like normal," Davito said. "We felt the best way to attract bright, young individuals to work here was to open up summer internships in our Department."

So DTED went back to school, quite literally, to recruit engineering students for summer positions.

"We were fortunate to get six engineering students and two mechanical technicians," Davito said. The students, hailing from the Massachusetts Institute of Technology, Stanford, Brigham Young, Cal Poly and Delta College, to name a few of the schools, were



Veteran engineers pose with college students who interned at DTED over the summer. The program paired students with a mentor and allowed them to experience Lab culture.

employed by the Laboratory for 12 weeks. They were able to work on a variety of unclassified projects, including sensor development for flight re-entry vehicles and an investigation of shrapnel migration.

"We set up a mentoring relationship with each student," said Davito. "It was also important that they had a good project to work on, not just some busy work."

Stephen Gardner, a senior at BYU, said that one of the things he most appreciated about the program was the interaction he had with his mentor.

"My mentor and I met at least once a week, which was really nice," Gardner said. A mechanical engineering major, he is hoping to attend graduate school but would not rule out a

job at the Laboratory in the future.

"I liked all the seminars that were available to us, also the tours of the particle accelerator and talks about graduate school," said Gardner of his summer experience.

"Compared to what some of my friends did over the summer, the Laboratory was great, and that was partly because of the mentoring and partly because of the atmosphere."

Stanford graduate student Andrew Kim appreciated the opportunity to do meaningful research over the summer.

"I was able to contribute to my project, even though I wasn't an expert in the field," Kim said. "I did a lot of research, and I learned a lot that way."

A student in the Aeronautics and Astronautics Department, Kim first learned of the LLNL internship through a career fair.

"I dropped off a resumé and talked to the people there," he said. "They called me for an interview a couple of weeks later." Kim said that while he did not specifically apply to DTED, he was placed there because he could pick from several projects that interested him.

"I did some finite element modeling on a process called explosive welding," Kim said. "I wanted the experience of working at a national lab, because it seemed that it would be more of a challenge than some other jobs I was considering, and there's a great reputation here."

# Lab volunteers give homeless a hand up at East Bay Stand-Down

By Ali Carrigan

NEWSLINE STAFF WRITER

Chelle Clements didn't sleep much last weekend, but since she was helping other people to rest well, she didn't mind missing the extra down time.

Clements, a senior scientific technologist in B Division, was one of about a dozen Lab employees who volunteered at the East Bay Stand-Down. The stand-down took place at Camp Parks in Dublin Sept. 7-10.

"A stand-down, in the military sense, was a chance for a fighting unit to get away from the war to relax, have a hot shower and a good meal," Clements explained. "This stand-down allows homeless veterans to get away from life on the streets and get help, whether physical, mental or legal."

The East Bay Stand-Down, one of hundreds of such events, attracted about 320 men and women from all over the East Bay. Local doctors were on hand to provide immunizations, medical tests and dental care. Volunteers prepared food for the veterans, and student law clerks helped prepare the participants for their moment before Judge Ron Hyde to finally resolve minor offenses.

"Basically, we gave them a place to sleep safely, get a hot shower and good food, and begin to work out some of their problems" Clements said. Clements is a veteran of the Army herself, and served during the Vietnam era, although not in the Vietnam War.

"Many of the members of the Lab's Armed Forces Veterans Association were there volunteering," Clements said. "They did everything from being tent leaders, to creating a database, to cooking food." Other volunteers from the Lab included Bob Zazueta, Rexanne Jones, David Nisse and Connie

Mack.

One of Clements' fellow employees, Leslie Curtis, was one of the mess hall volunteers. She is not a veteran or member of the Lab's Veterans Association, but saw the paperwork floating around the office and became interested.

"I had no idea there were events like this," Curtis said of the stand-down. "But it was fun. I think I got more out of it than they did."

Curtis helped prepare three meals a day for the 320 veterans, as well as for all the volunteers.

"As soon as one meal was over and cleaned up, we started on the next one," she said. "It took that much lead time to cook all this food."

Clements said that despite the rough lives most of the vets lead, there were some light-hearted moments.

"There was one vet who is a barber," she said. "And like any good barber, he had his clippers with him. So he just started giving people haircuts."

Clements also danced the night away with several of the men.

"We had a dance Saturday night, and I danced with as many different men as I could for two and a half hours," she laughed. "The next day, several of the men told me that the dance was the most fun they'd had in a long time."

The Vietnam Veterans of Diablo Valley and the Concord Vet's Center organized the East Bay Stand-Down for the second year. Clements heard about the



Chelle Clements

event last year, but not in time to participate. To help make up for that lack, the Lab Veterans Association collected clothing to distribute at the stand-down.

"We also heard that they needed someone to help with the database, so I volunteered," Clements said. "From there, more and more people got involved."

Clements and her fellow volunteers worked literally day and night to help the veterans.

"I had to be there at five in the morning to start making coffee," Curtis said. "We went through gallons of coffee before breakfast."

"You come away exhausted, but feeling like you were able to help someone," Clements said. "To know that these vets now have a chance at a job or housing that will get them off the streets is a great feeling."

Clements and other Lab volunteers are considering helping with stand-downs in Sacramento on Sept. 22-24 and in Modesto on Sept. 29- Oct. 1.

"Some of the guys who live in the Central Valley might go to that one to help out," she said. "What was really neat about the East Bay Stand-Down was that at least three of the staff members this year were participating as homeless vets last year. It really does help."

For more information about the Stand-Down Program, check out the National Coalition for Homeless Veterans Website at <http://www.nchv.org>.



NEWS YOU CAN USE

Free admission!

Lawrence Livermore National Laboratory  
invites you to

SCIENCE 2001: AN EVENING SCIENCE SERIES

SATELLITES, ROCKETRY  
&  
MANNED SPACE FLIGHT

By Aprille Ericsson-Jackson, aerospace engineer at NASA  
Goddard Space Flight Center.

Find out about this engineer's fascinating work as an  
aerospace engineer, ranging from her university research  
to NASA's Goddard Space Flight Center satellite projects.

Sept. 28, 2000  
7 p.m.

Livermore High School

Performing Arts Theater, 600 Maple St., Livermore

Airing on **CTV** Channel 30

Contact: LLNL Public Affairs Office, 925-422-4599  
<http://www.llnl.gov/llnl/06news/Community/lecture.html>

Lawrence Livermore National Laboratory presents lectures during the school year  
to bring important, current science topics to the general public. Public outreach  
for education is a goal of both the U.S. Dept. of Energy and the University of  
California. LLNL is operated by UC for the DOE.



INTERNAL TRANSFER OPPORTUNITIES

Requisition	Classification	Title	Organization
872	105.2	Administrator	Energy
799	105.3	Senior administrator	Computation
901	150.2	Senior resource analyst	Human Resources Department
860	220	Post doc research staff member	Electronics Engineering
179	242	Geochemist	Earth & Environmental Sciences
180	242	Geochemist	Earth and Environmental Sciences
824	249	Quality assurance manager	Electronics Engineering
827	249	Electronics engineer	Electronics Engineering
842	249	Engineer	Electronics Engineering
850	249	Assurance manager	Engineering
657	249	Operations manager	Mechanical Engineering
772	249	Mechanical engineer	Mechanical Engineering
781	249	Engineer	Mechanical Engineering
836	249	Mechanical engineer	Plant Engineering
863	256	Mathematician	Electronics Engineering
178	270	Physicist	Earth & Environmental Sciences
806	270	Physicist	Physics and Advanced Technologies
753	285	Computer scientist	Computer Applications Organization
789	285	Computer scientist	Computer Applications Organization
867	285	Computer scientist	Computer Applications Organization
869	285	Computer scientist	Computer Applications Organization
905	285	Computer scientist	Computer Applications Organization
828	339.2	Senior engineering associate	Electronics Engineering
786	391.1	Nmtp superintendent	Mechanical Engineering
810	405.4	Administrative specialist IV	Chemistry and Materials Sciences
833	405.4	Administrative specialist IV	Center for Applied Scientific Computing
680	405.4	Administrative specialist IV	Hazards Control
853	405.4	Administrative specialist IV	Telecommunications
493	502.1	Scientific technician	Hazards Control
684	525.2/3	Computer support technologist	Computer Applications Organization
771	533.3	Senior mechanical technologist	Mechanical Engineering

More information on these job postings as well as those at other UC sites and outside organizations is available through the  
World Wide Web. Go to the Lab's internal home page, click on "Services," then click on "Career Center." Once there, scroll  
down to "Information and Resources," where links to internal and external postings can be found.

Technical Meeting Calendar

Friday  
15

INSTITUTE FOR SCIENTIFIC  
COMPUTING RESEARCH

"Using the Forte Developer  
Performance Tools," by Marty  
Itzkowitz, Sun Microsystems,

Inc. 10:30 a.m., Bldg. 451, room 1025  
(uncleared area). Contacts: Bronis de  
Supinski, 2-1062, or Leslie Bills, 3-8927. For  
more information see  
<http://www.llnl.gov/casc/calendar.shtml>

INSTITUTE FOR GEOPHYSICS  
& PLANETARY PHYSICS

"High-Redshift Observations of Supernovae:  
Understanding Cosmology and the Physics of  
Supernovae," by Peter E. Nugent, Lawrence  
Berkeley National Laboratory. Noon, Bldg.  
319, room 205 (open area). Contact: Joanna  
Allen, 3-0621.

Wednesday  
20

INFORMATION SCIENCE  
& TECHNOLOGY PROGRAM

"X-Ray Micro-Diffraction and  
Micro X-Ray Absorption  
Spectroscopy," by Alastair

MacDowell. 1 p.m., Bldg. 481 auditorium  
(uncleared area). Contact: Bernice Wootton,  
3-8578.

MACINTOSH TECHNICAL SEMINAR SERIES

A presentation on Mac OS X Beta, Apple's  
next-generation operating system. The pre-

sentation will focus on features, functionality, ben-  
efits and implementation. 10:30 a.m., Bldg. 543  
auditorium (uncleared area). Contact: Becky  
Frank, 3-2879.

Friday  
22

INSTITUTE FOR SCIENTIFIC  
COMPUTING RESEARCH

"Visualizing Multidimensional  
Geometry with Applications to  
Multivariate Problems," by Alfred

Inselberg, San Diego Supercomputer Center. 9  
a.m., Bldg. 451, room 1025 (uncleared area).  
Contacts: Roy Kamimura, 3-5744, or Leslie Bills,  
3-8927.

MATERIALS SCIENCE & TECHNOLOGY

"Materials Experiments at High Pressure and Strain  
Rate Using Intense Lasers," by Dan Kalantar. 3:30  
p.m., Bldg. 235, room 1090 (uncleared area).  
Coffee and cookies will be served at 3:20 p.m.  
Contact: Thomas E. Felter, 2-8012.

DEPARTMENT OF APPLIED SCIENCE

"PDE-Based Nonlinear Image Filters," by Danny  
Barash, Hewlett-Packard Laboratories. 10 a.m.,  
Bldg. 661, room 13. Contact: Daniel White, 2-  
9870 or [dwhite@llnl.gov](mailto:dwhite@llnl.gov).

Wednesday  
27

INSTITUTE FOR SCIENTIFIC COM-  
PUTING RESEARCH

"An Implicit, Nonlinear Newton-  
Krylov Resistive MHD Solver," by

Luis Chacon, Los Alamos National Laboratory.  
10 a.m., Bldg. 451, room 1025 (uncleared  
area). Contacts: Carol Woodward, 4-6013, or  
Leslie Bills, 3-8927.

Thursday  
28

NEVADA TEST OPERATIONS  
& DEFENSE TECHNOLOGIES

Forging seminar, by Tom  
Schwingbeck Jr., and Bill  
Hood, Scot Forge. 9 a.m.,

Bldg. 543 auditorium (uncleared area).  
Contact: Pat Gennaro, [gennaro1@llnl.gov](mailto:gennaro1@llnl.gov).

Deadline for the next calendar is  
noon, Wednesday, Sept. 20.

- Address e-mail to [tmc-submit@llnl.gov](mailto:tmc-submit@llnl.gov) or  
fax to 2-9291.
- Mail listings to Technical Meeting  
Calendar, L-797.
- Telephone ext. 2-9709 for information  
regarding the printed calendar.

Did you know?

There's proper terminology for areas at the Lab:

Open area (aka White area)  
Uncleared area (aka Red or Property Protected area)  
Cleared area (aka Green or Limited area)

Note: lingo may change as badges change.





NEWS OF NOTE

Lab waste reduction efforts face new challenge

By Don Johnston  
NEWSLINE STAFF WRITER

Employee initiative in waste reduction, recycling and reuse efforts is the key to the Laboratory’s meeting the challenge of new DOE pollution prevention and waste minimization goals.

“Waste reduction through recycling, reuse and other programs has become an integral part of how we operate at the Lab,” says Kent Wilson, recycling coordinator in Environmental Protection Department.

“The success of recycling efforts is due in large measure to employee initiative,” Wilson says, noting that employees were recycling such items as newspapers and aluminum cans before formal Labwide programs were created. “Employees have led the way.”

Laboratory programs to reduce non-hazardous waste have earned awards from DOE. Since 1990, the Lab has steadily increased the amount of waste being diverted from the waste stream flowing to the landfill.

In 1999, the Lab diverted 65 percent of the non-hazardous waste generated on site through such reuse and recycling programs as “We-cycle Office Wastepaper,” or WOW.

Under the revised performance measure goals, LLNL must divert 67 percent of the routine waste it generates annually, but that percentage is likely to increase soon. Over the next four years, new DOE goals could require LLNL to reduce waste sent to the landfill to 75 percent of the level in 1993. One way to contribute to that kind of reduction is to increase recycling and reuse.

Comparing 1999 waste disposal figures to 1993, LLNL has reduced its disposal rate, that is the amount of waste going to the landfill, by only 15 percent. That is because the Lab’s waste stream has grown steadily over the last seven years.


“We’re again going to look to employees to lead the way,” says Wilson, whose pollution prevention team provides resources to make waste reduction initiatives work across the Laboratory.

“The biggest thing we can do is make sure we use the WOW paper recycling program,” Wilson says, noting that “a good portion of the waste generated at the Lab is office wastepaper.”


That’s consistent with national trends. About 50 percent of all solid waste in the country is paper, and wastepaper is the United States’ largest export product by volume, according to Weyerhaeuser Recycling.

Over the last five years, the Laboratory has expanded paper recycling programs to include a wider variety of paper (see illustration) and initiated a site-wide cardboard recycling effort and mail-in newspaper and magazine recycling pro-


Lawrence Livermore National Laboratory  
Pollution Prevention Program




Now we can recycle . . .




Plain paper envelopes  
(without plastic window)




Ledger paper with color printing/photos




Colored paper




Manila file folders




Sticky notes in limited amounts




White paper (staples/paper clips okay)




Laser print and fax paper




Computer printouts



Paper with recycled content



Shredded paper



LLNL telephone directories

Items that can be recycled through programs other than W.O.W. (We-cycle Office Wastepaper):

- telephone books (send to B616)
- newspapers (bin outside B616 or B219)
- cardboard (maroon bins)
- glossy magazines and prints (B411 mailroom or B616)
- metal (B616)

Unacceptable items include:

•classified and sensitive documents	•hanging file folders
•bound reports	•foam cups, containers
•plastic	•food wrapping
•viewgraphs	•paper towels
•rubber bands	•vellum
•nonpaper items	•coated paper (including bluesines)

For more source reduction, reuse or recycling information, call the EARTH hotline (E-ARTH or 3-2784).  
Affix to your W.O.W. box for future reference

the environment and makes economic sense. For example, the National Ignition Facility construction project has done extensive recycling.

In calendar year 1999, NIF diverted 38,000 tons of soil, 1,200 tons of asphalt, 175 tons of wood, 109 tons of concrete, 123 tons of metal, 62 tons of cardboard and 53 tons of other miscellaneous recyclable material. Over the two calendar years 1998-99, a total of 60,971 tons of non-hazardous waste were diverted from the NIF waste stream.

“Under the ‘Buy-Recycle Program,’ the Laboratory buys items that use recovered or recycled materials,” says Wilson, citing examples such as copy paper, moving boxes, publication paper and toner cartridges.

LLNL’s Donation, Utilization and Sales (DUS) group operates a number of innovative recovery, reuse and recycling “drop off” programs from its Bldg. 616 facility in the southeast corner of the Lab. Recycled materials include metals, cardboard, magazines, external phone books and newsprint. Reusable items include cardboard moving boxes, pallets, tires and other equipment. DUS also redistributes surplus material and equipment throughout the Lab or donates it to other federal agencies and public auctions. The program diverted 2,047 tons of material from the Lab’s solid waste stream in 1999.

“Recycling programs are good for the environment and are helping the Laboratory cut waste disposal costs,” Wilson says.

For the calendar year 1999, the Laboratory diverted 65 percent of its 5,597-ton waste stream, not including construction demolition waste disposal and recycling. If construction demolition figures were included, the diversion percentage would be almost 90 percent. Each ton of waste diverted saves LLNL \$30 in landfill tipping fees as well as the additional transportation and personnel costs.

LLNL’s pollution prevention team welcomes questions and suggestions on waste source reduction, reuse and recycling, Wilson says. “Next week is National Pollution Prevention Week. It’s a good time to take stock and consider new ideas about managing Lab resources. We expect even more stringent performance measures for waste reduction in the future.”

*For information or to offer suggestions about Lab recycling efforts, call the E-ARTH hotline, 3-2784, or check the Non-hazardous Waste Diversion Web page at: <http://www-envirinfo.llnl.gov/>*

*To find out more about Donation Utilization and Sales, check the Web brochure: [https://www-ais.llnl.gov/llnl\\_only/docs/bsd/property/DUS/DUS\\_brochure.html](https://www-ais.llnl.gov/llnl_only/docs/bsd/property/DUS/DUS_brochure.html)*

Forum for women forging future of science

Registration for event open to all employees

Women are helping shape the future of science and technology, and that future is the centerpiece of this year’s women’s forum.

The two-day conference, entitled “LLNL 2020: Women Forging the Future of Science and Technology,” will take place Thursday and Friday, Oct. 26 and 27, at the San Ramon Marriott.

Registration for the event, which is considered training under the Lab’s new guidelines, is open until Sept. 29, and the cost to attend is \$250 dollars.

Like past conferences, several keynote

speakers will address the audience. This year’s speakers are businesswoman Debra Crumpton, nuclear scientist Darleane Hoffman, San Diego State University Professor Shirley Weber, assistant attorney general Lois Schiffer, and medical reporter Dr. Kim Mulvihill.

The women’s conference will also feature a variety of focus groups and poster sessions.

For more information on the forum or to register, go to the forum Website at <http://www.llnl.gov/2020> by Sept. 29. The LTRAIN code for registration is OE0122.



# CLASSIFIED ADS

## AUTOMOBILES

1996 - 96Dodge Neon,2ltr DOHC eng,exc condition,5 spd,cd-player,premium sound, awesome mpg,51,000 mi,\$6500 209-955-6974

1997 - SATURN SL1 - 4DR sedan, 60K miles, 2 yr warranty. Automatic transmission, A/C, power locks, remote entry/alarm. 35 MPG/highway. \$9,400 OBO 925-447-5434

1991 - Honda Accord EX Wagon. 171K miles, new timing belt, water pump, belts. Clean. 925-447-4406

1986 - Fiero GT, V6, white, A/C, auto, 114k, synthetic only, sunroof, Pioneer CD system (\$500), carpool lane car (2 seats), nice, fast, reliable, \$2000/bo. 510-531-7314

1991 - Mitsubishi Mirage, AT, AC, AM/FM, 140K Miles, reliable, \$1425, 925-862-0955

1984 - Oldsmobile Regency Tan exterior,leather interior, AC, AM/FM, Cassette, PW, PS, 2dr, premium wheels,167K miles, good condition. \$2,000.00 OBO 925-634-4225

1990 - Honda EX Accord Blk/Tan, 4Door, AT,AC,AM/FM/ Cass, PW, Rear spoiler, Sliding-Moon Roof, Tinted Windows, Great Condition, 117k miles. \$5,500.00/OBO 925-371-6485

1989 - BMW 325ic Convertible. Red/black lthr. Loaded. Newer top, AT, brakes, tires. Excellent condition. Fast, fun and reliable. Only 86K miles. \$9,900 obo 925-371-8201

1996 - Chrysler TWN Country Van LXI, Excellent Condition. 100k miles (hwy) \$15k OBO (bus. phone) 209-833-3252 Or 925-373-7570

99 - Honda Odyssey; 35,000 miles; \$23,900 925-846-8065

1979 - MGB, classic green, perfect original paint & body, new top, excellent condition, 56,700 mi, \$4300 925-443-5324

1995 - c280 Mercedes Benz. Green, excellent contition, 65,000 miles, \$23K 925-831-9865

1990 - Dodge Grand Caravan, very clean, loaded, cd player, ignition disable alarm, running boards, trailer hitch. \$4000 209-838-1883

1996 - Pontiac Bonneville SE, very clean, 123K miles, newer GM Cert trans, full power, \$7,500 B/O 925-449-9197

1984 - 1984 Volvo GLT Wagon. High miles but in good condition. Well maintained. Leather interior, third seat, stereo radio. \$2300, OBO 510-663-1149

1996 - Pontiac Grand AM 4DR sedan, 63K. miles, Excellent condition. \$8200. 925-449-7612

1989 - Ford Taurus SHO, white, sunroof, all power. Great condition. \$2950 obo. 209-234-2337

1983 - Honda Civic,4dr, 5spd,174k,excl cond,new tires,valve job,one owner,\$1250 510-481-1862

1991 - Chevy Camaro RS, Manual Trans, New Tires & Clutch, Rebuilt Trans, \$4k OBO 925-447-1690

1994 - Ford Taurus wagon, AT, AC, PS, PW, leather, roof rack, 88K miles, \$6,000/OBO. 925-455-1250

1998 - Kia, 6,000 miles, assume payments, \$264.16; standard shift. 707 425-9860 925-449-6220

1986 - Mustang. 4 cylinder, 4 speed. Bad paint but runs great and very dependable. \$700 obo. 925-449-5441

1991 - Buick Park Avenue Ultra.

Little Old Lady Special. Very clean, only 29,000 miles. Asking \$10K 3.8 Liter-V6 925-934-5460

1998 - Infiniti I30, fully loaded, exterior Gold, 37K miles, leather,6 CD changer, dealer protective finishes, warrenty, 35K Maintence complete, \$21,500. 925-294-8365

1996 - Honda Accord EX. 4 dr, 5 speed, sunroof, excellent condition. \$8900 209-836-5431

1999 - Dodge Caravan SE Sport 34K \$17,495 V6 3.3L,Auto, White,FWD, AC,PS,PW, PL,TW,CC,AM/FM Cass,PG,RR, warranty/no deduct expires:12/2004 or 75K mi \$995. 925-292-0111

1991 - HONDA ACCORD LX - one owner and great condition - red, automatic, cruise cotrol, 2-door, 141K miles \$5200 OBO 925-462-3189

1981 - BMW 320i, Reliable Transportation, Blaupunkt stereo, 27.5 MPG, No dents, some rust \$950/BO 925-552-6684

1994 - Nissan Quest, 60,000 miles, V6, Front & Rear Air, Power Locks & Windows, Automatic, Good Condition, \$10,000. 925-373-6230

1986 - Mazda 323, 4 door, 170k miles. New clutch. Original owner. \$1900 or best offer 925-855-0607

1987 - El Dorado Class A 30 ft self-contained motor home, 24K miles, very clean, more \$26,950 or BO 925-373-0247

1995 - ACURA INTEGRA, silver, 73000 miles, new tires, 5-speed, \$10500 obo, great car, contact 510-428-1503

85 - Audi 4000S. New transmission, PW,PDL, sunroof, CDplayer. 110k miles. Runs good.\$3300.00 Call evenings 925-447-3178

1991 - Cadillac SEVILLE V/8 AUTO,bose stereo, leather interior, excellent condition, 75K MILES. 9,000.obo. 510-881-0671

1991 - Jeep Wrangler YJ, navy/tan, 3-tops, 5-31 in. BFGs/alloy wheels, 4.0L/6Cyl, hardtop storage system, many extras, orig. owner, 146k miles. \$7500 OBO 925-447-1808

1994 - Toyota Landcruiser,4.5L,Auto.,AC,PW,PL, PB,pwr moonroof,CD,3rd seat,luggage rack,running brds,alum whls,tow pkg,81K mi.,white, like new, \$23,000 925-934-2460

1985 - VW Scirocco red, very good condition, original owner, very low mileage, \$1800 obo 925-443-7841

1993 - Nissan King Cab pickup w/ camper shell, red, auto, AC, 128k miles, good condition, excellent maintenance history. One owner. Price: \$5000, 925-456-5345

1974 - chevy blazer, full convertible, 4x4, newer motor, rebuilt trans. 4in. rancho lift, 35in. tires, alluminum wheels. cd playe \$3500.00 obo. 209-825-6646

1990 - 300 ZX NISSAN, 3.0 Engine & Auto Trany replaced 2 yrs ago. Looks and runs great. White. Needs smog work.\$4000 OBO. 209-835-1991

1983 - NISSAN STANZA. Power sunroof, power windows. No Air Cond. 117000 miles. \$1500. 510-428-1503

75 - 1975 Blazer, 3/4 ton, 50K rebuilt motor, Keith Black signature pistons, high performance heads, new tires, motor blueprinted. \$2,250. or B.O. 209-239-4039

1993 - Mustang GT 5.0 78k miles, A/C, New Tires, Automatic, Power Everything, Very strong running car, Many Extras, Must sell \$8300 OBO. 209-830-7241

1998 - Volvo, S70, 30,000 miles,

clean, moon roof, leather interior, full power, just serviced. \$23,500 BO. 925-449-9197

1990 - 90 Buick Park Ave. all power new paint excellant condition 3000 925-606-1062

1998 - Jetta GLX, V6, Leather Interior, Heated Seats, Bose Stereo System, CD Changer, 32,700 miles-Very Well Maintained & Loved!! \$18,500. 925-245-1972

1988 - Acura Integra RS Hatchback, 5 spd, PS, PB, A/C, AM/FM Stereo Cassette, 186k miles, rebuilt at 102k, Runs Great! \$2,000 209-239-8261

1987 - Ford Taurus very good condition 4cyl.5speed 4door fresh smog runs great lots of new parts \$1500 925-449-8411

1967 - Mecury Cougar, 2 door, yellow w/black interior, automatic, AM/FM cassette, 289 engine. Good Condition. \$2,500/BO 925-373-1067

1998 - Saturn SL2,41k miles, 6 yr warranty.A/C, pwr DL, remote entry/alarm, 5-speed, rear windows tinted, 32-35 mpg.Great commute car! \$10,500/BO. 925-373-8354

1989 - Nissan Pulsar, Red 5 speed, T-top, CD Player,AC, Good Condition. \$2,500 925-443-1571

1989 - 1989 Oldsmobile Royale Brougham, Maroon color, 4-door, 155K miles. In good condition. Ask \$2,000. 925-455-0719

## AUTOMOBILE ACCESSORIES

Lumber Rack: Tubular Rack-It for a six foot bed with extended cab. 707-580-2074

new tire-wheel 205X75X15,snow tires 13 inch. 925-735-6002

Barrecrafters type roof-top ski rack. 40 inches wide, for roofs with gutters. Locks with a key. \$30 925-846-1525

Wheels/Tires from a 1992 Ford Mustand GT. \$199 OBO 209-836-9082

14 inch TIRES: 205/75/R14 good used TIRES fit many cars 2 for \$20, all 4 for \$30 925-447-7070

## BICYCLES

56cm Peugeot PXN10E, Reynolds 531 forks, tubes & stays, a real retro ride! \$150 obo 925-516-1424

Child seat, exc cond, incl mounting hardware, \$10 925-447-2508

Marcy Body Cycle 1 exercise equipment Like New! Paid \$109.00 asking \$50.00 925-606-9847

Mountain Cycle Pro DH, Zyzxx triple moto fork Risse air/oil rear shock XT Loaded mechanic maintained race ready \$1400 obo 925-602-5366

98 AMP B-4 frame (18.5in) XTR, RockShox DH fork, Risse Astro-5 rear shock & Amp rear shock, Mavic 517s 23.5 pounds \$3500 invested \$1200/BO 209-830-8672

## BOATS

1988 Malibu Sunsetter, 20ft, open bow ski boat, like new condition, low hours, lots of extras. \$11,500 obo 925-373-1279

1992 Kawasaki 550 stand-up Jet skis (2) with trailer. Both run great! \$2,500 OBO. 510-223-1963

1999 Yamaha GP1200 with Trailer. Ride plate. Low hours - ready for the water. \$7,100 OBO 510-223-1963

FREE Padded multihull diaper-type hiking out gear, miscellaneous cables. 925-449-6911

Check out the Employee Ads Web Services site at:  
<https://www-ais.llnl.gov/newsline/ads/>

## CAMERAS

Twin lenas camera 3 lens/offer/ Misc. photo equip./albums/retail carry bags 925-735-6002

## ELECTRONIC EQUIPMENT

Pentium III 650 MHz with 17 in. Trinitron monitor, 8.4GB HD, 128MB RAM. COMPLETE SYSTEM with lots in it. \$825. 925-443-1327

Sony TV, 19 inch, black cabinet, mono sound, cable ready, rear A/V input, remote control, manual. Like new. \$150 925-838-0546

Brother Word Processor 925-735-6002

Hughes DirecTV 18 inch dish system. The latest model. Single control. In sealed box untouched. Over bought, Paid \$85, sell for \$55. 925-455-8423

Pentium @ 200 MHz. 3 Gb HD, 24 Mb RAM, Microsoft Office, Speakers, Mic and 17 in. monitor. \$299 OBO. 209-836-9082

Supra 56K External Modem for Macintosh. CD included. New in box. \$100/BO. New data switch for Macintosh, printer/modem. \$20. 925-443-2334

## GIVEAWAY

Scared, shy cat needs quiet home. Can you help? 925-449-7564

FREE Clinder blocks - approxiately 30, gray, you haul. 925-456-7972

Twin-bed mattress, box spring, and frame. 925-447-5359

Chairs - 3 available (2 match), Uhaul, good for playroom or college student 925-449-6048

Entertainment center; holds large TV, stereo, books. 4ix4.5i. Oak finish. 925-449-6334

Free cab-high shell (blue) and/or carpet kit from 1990 F250 truck w/8 ft. bed. 925-443-1278

Free Gardening Rocks, Mixed sizes and light to medium gray in color. 925-443-4090

## HOUSEHOLD

21 cu ft Fridgidaire refridgerator, almond, runs well. \$100 obo 925-516-1424

4 pc Bedroom set,5 months old,excellent condition-includes bed/headboard,2 in tables, dresser-will deliver-only \$300!! 209-955-5974

kids sleeping bags, Little Mermaid, good cond, have 2 alike, \$4 each. 925-447-2508

Radial Arm Saw. Craftsmen 10 inch, new blades and many extras.Good condition. \$150.00 firm 925-447-1410

Queen-size bed (mattress, box-spring, frame). Top-of-the-line Stearns & Foster brand. Excellent condition. \$100. 925-454-8827

Antique Library Case, 3 units + base & writing desk, \$200. Custom oak coffee & end tables \$300. Kitchen table + 4 chairs, \$150. 925-447-0596

Garage Sale - Multi-household. 4126 Wells St. Pleasanton. Sat. Sept. 16, 8 a.m. - 2 p.m. Lots of stuff including baby items, and infant boys clothes. 925-426-6872

COMPUTER DESK - L-shaped

unit with dropped keyboard tray in center. Gray \$30 925-456-7972

Oak Entertainment Unit for 27inch TV. Adjustable shelves behind smoked glass for stereo/VCR, storage for videotapes. Good condition. Asking \$50. 925-456-7972

kenmore Doulbe oven, First installed in 1988, Self cleaning, black face, Very good condition. \$300.00 209-522-7480

Hideabed sofa, fullsize, tan/biege, \$200 woodtone kitchen table 42 inch round w/leaf and 4/black swival chairs \$100, 7-drawer wood desk 22x52, \$200 925-447-8613

Oak table, 4 chairs.Built 1920s,Pedestal clawfoot table, Italian,high-back chairs, thatch seats. 2 leaves, seats 12. Good condition. \$550 OBO. 925-443-0743

Jacuzzi for bathtub, still in box - Paid \$50, sell for \$30. 925-449-6048

Washer & Dryer in excellent condition, only 1 year old. \$200. 209-957-5128

Waterbed, captian style, CA King. New top quality mattress, dark wood, large head board with mirror. \$200 209-467-2833

Lawn mower, Leather lift belt,new Elvis picture, draperies,rods,beach chairs 925-735-6002

Oak dining room table with 6 chairs and a glass protective cover. Good condition. \$600.00 925-447-6575

FOR SMALL CHILD: Table and 2-chair set with brightly colored alphabet border, good condition, very sturdy, \$25. 925-455-4666

Classic Oak Entertainment Center, 5 feet long and 21 inches wide, in excellent condition. Will sacrifice for \$275 or BO. 209-825-7497

TV stand- wood box style with two glass doors \$45. End tables- wood frame with glass tops, both \$50. 209-836-9082

2 nightstands, I high drawer dresser and one regular dresser for sale. \$175.00 OBO 510-793-6215

## MISCELLANEOUS

ft x 8ft aluminum storage shed with shelves. \$50 925-447-7524

electric charcoal briquette starter, \$4. 925-447-2508

Slot Machine.Bally Bonus Line.4 reel electro mechanical. Glass in excellent condition.\$800.00 firm 925-447-1410

YARD SALE. Sat. Sept. 16, 8:00AM - 3:00PM. 4955 Gladys Ct., Livermore. Household items, bed, clothes, electronics, top-quality stuff. 925-454-8827

Ceramic tile, 12 - 15 sq ft, 1-inch cobalt blue, 10.00. Gas 4-burner cook top, older but never used, \$75. 3-hp ball-bearing dayton motor, \$150. 925-447-0596

Huge Garage Sale - 7AM-1PM Saturday 9/16, 626 Wedgewood Dr., Manteca. Call (209)825-9794 or 209-823-5085

VEGA TABLE SAW FENCE.50 inch cut to right of blade. Right extension table w/ router insert. Ready to bolt on your DELTA or ???. \$135.00 209-832-0765

LATHE/MILL. Smithy 12X20 lathe W/builtin mill. Three and four jaw chucks plus full set of accessories. Custom bench w/drawers/shelves. \$800 925-447-2530

Pool, 15ft dia above grnd, upgrad-ed pump/filter, auto. bottom sweeper, unused solar cover, all accessories. Xlnt cond. over \$1000 invested, \$195. 925-606-0260





CLASSIFIED ADS

See Newsline at <http://www.llnl.gov/PAO/Newsstand/internal-comm.html>

BABY ITEMS - all excellent cond. Crib, mattress, bedding, combi stroller, 3 car seats, swing, porta-crib, walker, jumper, misc. 925-275-9434

5Ft.Octagon Cal-Spa, everything works, incl. cover \$150.00 U-Haul. Queen Mattress and boxspring, Med. firmness 3 yrs. old \$50.00 209-835-8976

Water softener, complete, \$90; wood wall units , 32 in. wide x 78 in. tall,\$75 ea; steel and wood fence posts, \$0.50 to \$4 ea. 925-455-1183

Yard Sale, Sept 16, 8am-2pm. Dressers, stereo cabinet, childs desk, toys, & lots more. 777 Terry Lane, Livermore-between Charlotte and Hazel. 925-443-5663

Baby/Toddler Items - 2 carseats, infant \$20, toddler \$25, battery powered car \$50, other toys and clothes 925-449-6048

Gargage Sale -Sat & Sun 9/16-17 3 Families 8:00-4:00 821 Sunset Dr, Livermore-Furniture Baby Items, collectibles and Lots of Misc. 925-449-8959

Marquise cut center diamond, side round & baguettes diamonds, 10yr Diamond Bond, current trade in value \$2,500.00 toward purchase, \$1,200.00 or BO. 925-449-9175

Large patio set, table - rectangle, dark green w/glass top, 6 large arm chairs - dark green & white. \$300 for the set. 209-571-3432

Redwood (Deck Hart)-14-2x8 New \$2.00/lb ft 925-706-2337

2 Tickets to beautiful musical Les Miserables- Sept. 16,8PM , Curran Theater SFO. \$77 each orchestra or best offer. 408-281-7160

Creative Memories Album Tote, brand new, never used, \$20. CT Circle cutter \$2; asst. Mrs. Grossman sticker sheets .50. Call after 6pm. 925-443-0153

Thirty Inch Wood Framed Paper Cutter. \$50.00 925-606-0480

Raider Tix. Two at \$50/each for 9/24 Cleveland, 11/26 Atlanta, 12/10 NY Jets, 12/24 Carolina. 510-465-3058

7-6ft square cyclone fence panels plus one gate panel. makes great dog run. appr \$350 new. make offer. 925-600-7953

CARDBOARD BOXES, sturdy moving/storage: Big and Bigger: 40 for \$50, Huge: only \$2 ea. 925-447-7070

MOTORCYCLES

1981 - GL1100, well maintained, good machine, new tires and brakes 2.5k or make an offer 707-580-2074

2000 - DRZ400e, many extras, green sticker. Almost new, perfect condition. Less than 20 hrs on bike. \$4900.00 925-373-6870

1994 - Kawasaki ZX7R Ninja - Very clean. Low miles, never down, always inside. New tires. Muzzy tit pipe. \$6,000 OBO 510-223-1963

1995 - Hein Gerkie leather jacket, XXL, liner, elbow pads, \$450 new, real nice, hardly worn, \$200obo. AVG Quasar helmet, LG, black, like new, \$150obo. 408-280-2680

MUSIC INSTRUMENTS

Casio CPS-201 electronic keyboard. 5 octaves. Touch-sensitive keys. Perfect for that budding musician in your family. \$100. 925-454-8827

Professional Yamaha C trumpet. Heavy-wall bell, silver plate. Excellent cond. \$800 650-364-3448

Saxphone, alto. Signet. Used 2 years in Livermore High School band. Good condition. \$1,000. 925-455-5814

Full upright piano. Good condition. All keys function well. \$600.00 925-447-6575

Acoustic/Electric 12-string guitar. Applause by Kaman. Ovation round back style. \$149 209-836-9082

Ibanez Roadstar electric guitar, Peavy Bandit 112 Amp, Korg AX30G effects box, Crybaby Wah. All virtually new, \$500 for all, will sell seperately. 925-606-7482

Clarinet, Selmar CL-300 student model, great condition, \$215 OBO 925-455-6659

PETS & SUPPLIES

10 wk. Yorkshire puppy, male, Champ. lines, great personality, quite the clown, terrific companion! Shots & paper trained. \$550. 209-571-3432

Beautiful 2.5 yr. rhodesian ridge-back mix. Great w/kids. Looking for a lot of attention and love. Free to a good home. 209-832-2812

DOG CARRIER - Airline Style, Tan, Very Large, 36 inches Long Only \$50 with pad. ALSO Wire Dog Kennel, same size \$40 925-846-5060 or 925-447-7070

RECREATION EQUIPMENT

BACKPACKING TENTS - Eureka Backcountry 2. Never used - still in box. 5 lbs. Shockcord poles. 38 sq ft. 3 tents. Retail \$173. Now \$140. Scott Perkins 925-829-8974

Pin ball machine.1974 Bally Eight Ball.Play field and back glass v.g.. Extra lights,bumper rubber,cpu board and manuals.\$500.00 firm. 925-447-1410

Windsurfing equipment. Seatrend board (\$50), boom (\$15), many sails (free-\$125), masts, fins, harness, etc... Call for details. 925-456-7972

Skis, K2 R5000 160 cm. Boots, size 9. \$100. 925-455-5814

Weider Total Body Gym, new still in the box \$100, Tread mill \$50, older set of womans golf clubs with bag \$50 925-371-1465

NordicRow TBX III Exercise Machine \$25.00 925-443-4090

Aerobic exercise machine, exercises both arms and legs, \$40. 925-377-6537

RIDESHARING

Express your commute, call 2-RIDE for more information or visit the web site at <http://www-r.llnl.gov/tsmp/> for more information

East Contra Costa - Deluxe commuter buses from Antioch, Oakley, Brentwood & Byron provide service to the 7:00 a.m. and 8:00 a.m. shifts. 925-754-6622, ext. 2-7433

Ceres/Modesto - 14 psgr Enterprise luxury vanpool, 7:00-3:30 209-537-0229, ext. 3-6631

San Jose & Fremont Mission - Space is available from San Jose and Fremont-Mission areas. Work hours:7:30 4:30. 408-238-1909, ext. 3-3057

Modesto - 14 Passenger commuter van. Approx. 8 - 4:30 work schedule. Pretax reduction helps lower commuting cost. 209-521-9047, ext. 2-5177

San Mateo - Riders needed for the 14 passenger van. Van has AC, reading light and capt. chairs. F 650-341-5795, ext. 3-7857

Lafayette - LaMOrinda (and Walnut

Creek at Rudgear Rd) Vanpool. Luxury van (reclining seats, reading lights) 8-4:45, \$115/mo (pretax reduction available) 925-376-5376, ext. 2-3005

Discovery Bay - Carpool seeking additional non-smoker rider/driver. Work hours: 7:30 to 4:15. 925-634-6628, ext. 3-9756

SERVICES

Roofing, 28 yrs experience, fully insured 925-454-9200

Handyman service, roof gutters cleaned/ repaired, sprinklers repaired and installed, sewer lines cleaned, painting, sod lawns, etc. 925-373-3465

Too Tired to Clean Your Home? Two Experienced Housekeepers available to clean your Tracy/ Livermore Home. Call evenings or leave message. 209-858-9377

Full time daycare opening in a warm, loving, home enviornment. Conveniently located in Livermore. 925-447-3923

Professional Tree Stump Removal & Sprinkler Repair call for FREE Estimate 925-443-6010

PARENTS troubled by TEEN behavior? What to do now, before too late? Free info on ToughLove, & Residential Treatment Facilities. (Meeting here.) 925-447-7070

SHARED HOUSING

Room for rent in nice Livermore Townhouse. 500/mo. plus 1/2 utilities, less for part time. Call for more details. 925-294-9914

Livermore - Master BR w/priv bath for rent in large home. Full house privs. Super area. \$900/mo \$1200/dep +1/2 util. 925-443-4119

TRUCKS & TRAILERS

1988 - gmc extended cab l/b v8 95k org. Miles 2nd. Owner.jvc cd system,truck rack, custom wheels excellent condition. 8,900.00 209-836-4698

1990 - FWD Ranger New Tires, New V6, New Lumber rack, cd player-\$5500 707-580-2074

1997 - 1997 Ford Ranger XLT - Extra Cab, 4.0L, Sliding rear window, 5-speed. \$10,500 OBO. 925-287-1118

1998 - 1998 Chev-Blazer 2DR ZR2-Susp. 4X4, 4.3 V6, 5spd Auto Red ext. Gray int. Sun Roof, Rf Rack, CD&tape, Alloy Wheels. Like new 22,500 mi. \$21,500 925-734-8821

1998 - Chevy Silverado Ext. Cab w/3rd door, one of the last 350 V8s, fully loaded, Tow pkg. excl cond. Too many extras to list. 48K Hwy mileage. \$22,000 OBO 209-571-3432

1990 - GMC Sierra 1500, 4-6drop,budnik wheels,phantom grille,rollpan,smooth tailgate, flow-master,new tokico shocks,air bags,alarm,very clean,\$11,000. 209-823-8237

1994 - GMC SLe 2WD w/70,000 mi. AC, PS, PB, CD and many other custom items. Fire-engine Red. Very clean. \$13,000 obo. 209-586-9261

1997 - Ford F150, 3 door, super cab, long bed with liner, AT, V8, AC, PW, PS, \$16,000/obo. 925-455-1250

1994 - Mazda B3000 SE Cab Plus. Automatic Trans, CD Player, Power Steering, 70K miles, Ex Cond \$8500 or B/O 209-836-3969

1998 - Chevy 3500 Crew Cab. 7 1/2 inch suspension lift, 3 inch

body lift, 38 inch tires will also give 35 inch tires. All the extras - must see. \$27,000 925-513-0412

1999 - Ford Explorer XLT, 12K miles, 4.0SOHC V6, 5 speed auto/overdrive, leather, 4dr,lug-gage rack, towing package,cd/cass/radio,cruise,rear air; many many other luxury features 26,750 OBO 209-951-0102

1993 - Nissan King Cab pickup w/ camper shell, red, auto, AC, 128k miles, good condition, excellent maintenance history. One owner. Price: \$5000. 925-456-5345

1998 - 1984 Ford F150, 4x4, 302V8, 4 speed, toe package, sleeper, new clutch, 118,000 miles \$3,400.00 or best offer 925-634-1296

1998 - Ford Ranger XCab, XLT, 4.0L V6, AT, loaded, like new, 17k miles, \$15,900 OBO 925-456-7910

1992 - CHEVY 1500 Extended Cab. Custom by Bell. Excellent running condition. \$8,000 or Best 925-443-1571 br

VACATION RENTALS

Eagle Lake Vacation Rentals- Close to water, boat launch, airstrip, stores, lodge. Great trout fishing & family fun. 530-825-2131 or 209-543-1845

SOUTH LAKE TAHOE - 3 Bedroom 2 Bath Chalet, nicely furnished,quiet area , all amenities,Homeowners park with lake,etc. Great for Vacation! Hurry for Summer! 209-599-4644

Twain Harte - Fully furnished.2bdr 2full bath.Cable TV,VCR,dishwasher,microwave,washer,dryer,and more.Close to Pinecrest Lake.\$150wknd \$300week. 925-443-2808

Pinecrest - (Off Sonora Pass Road), 3 bdrm/2 bath, frplc w/wood, microwave, barbecue, pool table, large deck and view up No. Fork of Tuolumne, \$175/wknd. 925-449-5513

Tahoe Donner - Tahoe Donner Home - Wanting to trade for Hawaiian Vacation Accommodations. Two year old,3BR,21/2BA,W/Loft. Sleeps 10. \$350 per Wknd or trade. 925-679-1612

MAUI oceanfront condo: ocean view, white sandy beach, pools, tennis, BBQ, snorkeling. Pro golf nearby. Low LLNL rates. 925-846-1459

South Lake Tahoe - 4Br, 2Ba, with

loft. Great location off Pioneer Trail. Close to everything. Now renting for all seasons. 209-239-9267

SEA RANCH - - Oceanview vacation home, 2-4 adults, no pets, no smoking, 2BR/2BA, 1700sqft, whale watch, hike, kayak, swim, tide pool. 925-443-5086

WANTED

Wanted trail 70 running or not. Wanted trail 110 in good condition. Will pay reasonable price. 209-835-3782

Donated used medical supplies and equipment will be sent to Red Cross clinics in Torreon Mexico.Tax receipt avail. 925-447-7394

16 foot canoe wanted. Good stable canoe for general family use. Will pay reasonable price. 209-835-3782

Small refrigerator and/or freezer for evening project at LLNL. 925-462-6237

Books, CDs and videos for book-sale to raise money for Xmas gifts for needy kids. Next sale at the Lab starting 10/9/00. 925-456-6725

Wanted- Person to help with yard-work, painting, auto repair, odd jobs, weekends or evenings Livermore or Pleasanton 925-447-7070

Need a Tutor to help with Pre-Algebra. I am willing to meet 1 or 2 time per week during lunch or after work or weekends. 209-832-2060

Person to do yard work (remove weeds, rototill part of front yard, sod). Small job. Will pay agreeable rate. Weston Ranch, Stockton. 209-234-2050

Small refrigerator for personal use in my office. 925-551-5965

Part-time Nanny needed 2-3 days a week for two boys ages 7 months and 2 years. Non-smoker. Please fax resume with references 925-373-7878

Wanted-Refrigerator, washer and dryer. Looking for good condition at reasonable price. 925-609-8313

Wanted: 49er tickets — Would really like two tickets to the 10/8 49er vs. Oakland game. 209-839-0416

Camper shell for 88 Toyota long bed needed. Red or white color perf. 925-449-3776

House/duplex to rent in Dublin, Livermore, Pleasanton. 2/bd1/ba pets reasonable rent. Need ASAP 925-484-5397

Guidelines

Newsline is not responsible for any errors contained in the classified ads. It is up to the employee to proofread his or her ad to make sure it contains the correct data, including the phone number.

Employees are reminded that only car- and vanpool ads may contain Lab extensions. E-mail addresses are not allowed.

Due to space limitations, Newsline cannot run ads that are submitted in all capital letters. “Personals” ads are not permitted either.

Employees may submit one ad per category, but may not include the same ad in more than one category.

Ads may only be submitted through the Employee Ads Web Services site <https://www-ais.llnl.gov/newsline/ads/>

BATZEL

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in 1953, a year after LLNL started, as assistant division leader in Chemistry. During his career, he served as the leader of the chemistry, nuclear testing, space reactors and biomedical research directorates.

A native of Idaho, Batzel received his bachelor's degree in chemical engineering from the University of Idaho after serving as an Air Force navigator during World War II. In 1951, he received his Ph.D. in nuclear chemistry at UC Berkeley, studying under Nobel laureate Glenn Seaborg's

direction.

Among his many honors, he was a fellow of the American Physical Society, a fellow of the American Association for the Advancement of Science and a recipient of one of the Department of Energy's highest awards, the Distinguished Associate Award.

Batzel died on Saturday, July 29, after a massive heart attack. More information about Batzel is available at two Websites: [www.llnl.gov/PAO/Newsstand/articles/2000/8-04-00-](http://www.llnl.gov/PAO/Newsstand/articles/2000/8-04-00-batzel.html)

Lab team to honor Batzel in heart walk

A team of Lab employees will join the American Heart Walk in honor of former Director Roger Batzel. The walk is sponsored by the American Heart Association and raises money to fight heart disease and stroke.

LLNL employees, their families and friends are invited to be a part of the LLNL team and participate in this event on Oct. 1, from 8:30-11:30 a.m at Heather Farm Park in Walnut Creek.

Contact Pat Davis at 2-6408 for more details.

[www.llnl.gov/PAO/Newsstand/articles/2000/8-04-00-batzel.html](http://www.llnl.gov/PAO/Newsstand/articles/2000/8-04-00-batzel.html) and [www.llnl.gov/llnl/06news/News Media/Batzelcap.html](http://www.llnl.gov/llnl/06news/News Media/Batzelcap.html)

B FACTORY

Continued from page 1

from Livermore have been involved in every aspect of the B Factory experiment — from the conception and design to construction and operation of the factory's electron-positron collider and high-resolution detector, which came on line in May 1999.

LLNL's Karl van Bibber and Marshall Mugge led the Laboratory's contribution to the construction of the B Factory accelerator, while Richard Bionta and Wright led LLNL's development effort on the detector.

SLAC, Lawrence Berkeley and Lawrence Livermore national laboratories built the DOE-funded accelerator. The physics measurements are made with a state-of-the-art detector built by the BaBar collaboration of 500 physicists from nine countries. The name BaBar is derived from the pronunciation of the physics symbols for the B and anti-B meson particles, and the worldly elephant of children's literature.

The B Factory aims to resolve one of the enduring mysteries of cosmology by allowing scientists to detect and measure with greater precision than ever the differences, or asymmetry, between the laws of physics for matter and those governing antimatter.

Physics experiments have shown that when energy, such as the Big Bang many scientists believe to be at the origin of the universe, is turned into mass, equal parts of matter and antimatter are created. Each particle of matter has an antiparticle opposite. When the two meet they annihilate. With equal parts matter and antimatter, the universe should be a vacuum containing only the "bath of energy" left over from annihilation.

Scientists believe the fact there's matter throughout the universe — stars and galaxies — is due to an imbalance or asymmetry in nature that allowed some matter to survive the inevitable annihilation.

Conventional particle physics theory contains a

mechanism called charge parity violation, or "CP violation" that results in such an imbalance, but is an area of physics that could not be explored until the advent of B Factories.

The B Factory's innovative collider creates pairs of B mesons, millions of them — hence the designation "B Factory." A feature that makes the SLAC B Factory distinctly different from past accelerators is that it is "asymmetric," that is, the electrons and positrons circulate at different energies. This feature makes it possible to determine the extremely small difference between the time the B meson and the anti-B meson decays. The CP violation effect shows up in the difference in these time distributions.

"This was a huge milestone for both the accelerator and the detector," Wright says.

"From the moment it was turned on it has run well," he says, explaining that experience has shown that new accelerators often need years of fine tuning to perform at peak potential.

The B Factory has yet to reach its full potential, but is nonetheless "producing results of world significance," Wright says. "What's really exciting is that it's just going to get better and better."

The results announced in Osaka are consistent with the expected CP violation effect, but do not as yet call into question the "Standard Model," currently the prevailing theory on the behavior of matter and energy.

"The jury's still out" due to the "statistical significance" at this early stage of the game, Wright says. But that margin of error will steadily decrease as millions more B mesons are produced and measured.

In announcing the BaBar collaboration results in Osaka, BaBar spokesman David Hitlin of Caltech observed that "the rapid launch of the B Factory has given us our first glimpse into the domain of CP violation measurements in the B mesons system."

Wright concurs and says "this is an area of physics

that wasn't looked at closely before, simply because it wasn't possible."

Though preliminary with a large margin for error, the results are significant because, while scientists have had experimental evidence of subtle asymmetries since 1964, they've had no way to explain the origin of the effect.

Now the B Factory at SLAC and the rival KEKB experiment in Japan offer a way to measure asymmetry and either confirm or challenge current theories.

Wright and his LLNL team are one of the primary groups identifying CP violation signatures.

"You can have positive results, but you've got to convince a skeptical scientific community," he says. "To do that we will not only shrink the error bar with more data, but also measure the asymmetry in distinct and independent channels."

"At this stage we're still developing the tools to extract the asymmetry from the data," he says. "To date, the data sample is still too small to be important to theory."

Wright says it's "win-win" no matter what the eventual outcome of the experiment. "We're finally putting theoretical models to the test. If we see an asymmetry, that's a huge discovery," he says. "If we see no asymmetry, that would be big news as well."

"Cosmology desperately needs this," he says. "Cosmology is missing a process to get rid of antimatter."

What scientists expect to find are results that may indicate "cracks" in standard theory. "This is a new area of physics," Wright enthuses. "Right now we, along with our Japanese colleagues, are on the cutting edge, and that's very exciting."

With B Factory and KEKB experiments continuing to gear up their accelerators and fine-tune their detectors, Wright expects results could come sooner rather than later. "Within a year, there will be meaningful, potentially theory-shattering results."

GUESTS

Continued from page 1

assigned to LLNL, including DOE employees, may bring up to 10 family members or guests each day. Other Q and L-cleared DOE employees and Q and L-cleared Sandia employees are invited to attend and may bring their immediate family members.

Immediate family members are defined as spouse, children, parents, siblings, grandparents, including step-relations, in-laws or adopted relatives in these relationships, and other related persons living in the employee's household.

Entry forms will also be required for all Q- and L-cleared persons to bring family members and guests. These "white entry forms" will be made available soon via the Web on the Grapevine. These white entry forms will be turned in as employees enter on Family Days. The form will also be available from program security representatives.

Watch *Newsline* and *NewsOnLine* for further details on obtaining white entry forms.

For more information on the blue entry cards and gaining entrance for family members

Planning for upcoming Family Days

The general rule for Family Days preparation is that no classified work will be permitted in visitor tour areas after 7 a.m. the day before visitors are expected. However, it is recognized that programmatic requirements may require an exception to the general rule.

Requests for exceptions should be directed to and coordinated with the appropriate program security representative. In any event, all repositories, security alarmed rooms and other secured areas are to be locked no later than 5 p.m. Friday, Oct. 20, and are to remain secured until

the conclusion of Family Days on Sunday, Oct. 22.

Day locks such as Z cores and Tesa locks cannot be used to secure classified materials during Family Days. If additional locks and keys services are made, arrangements must be made through building coordinators or key custodians.

At Site 300, similar rules apply until all visitors vacate on Saturday, Oct. 21. Any exceptions must be coordinated through and approved by the Site 300 resident manager's office and the Site 300 security representative.

and guests who are foreign nationals, contact Don Carlson, 3-9135.



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